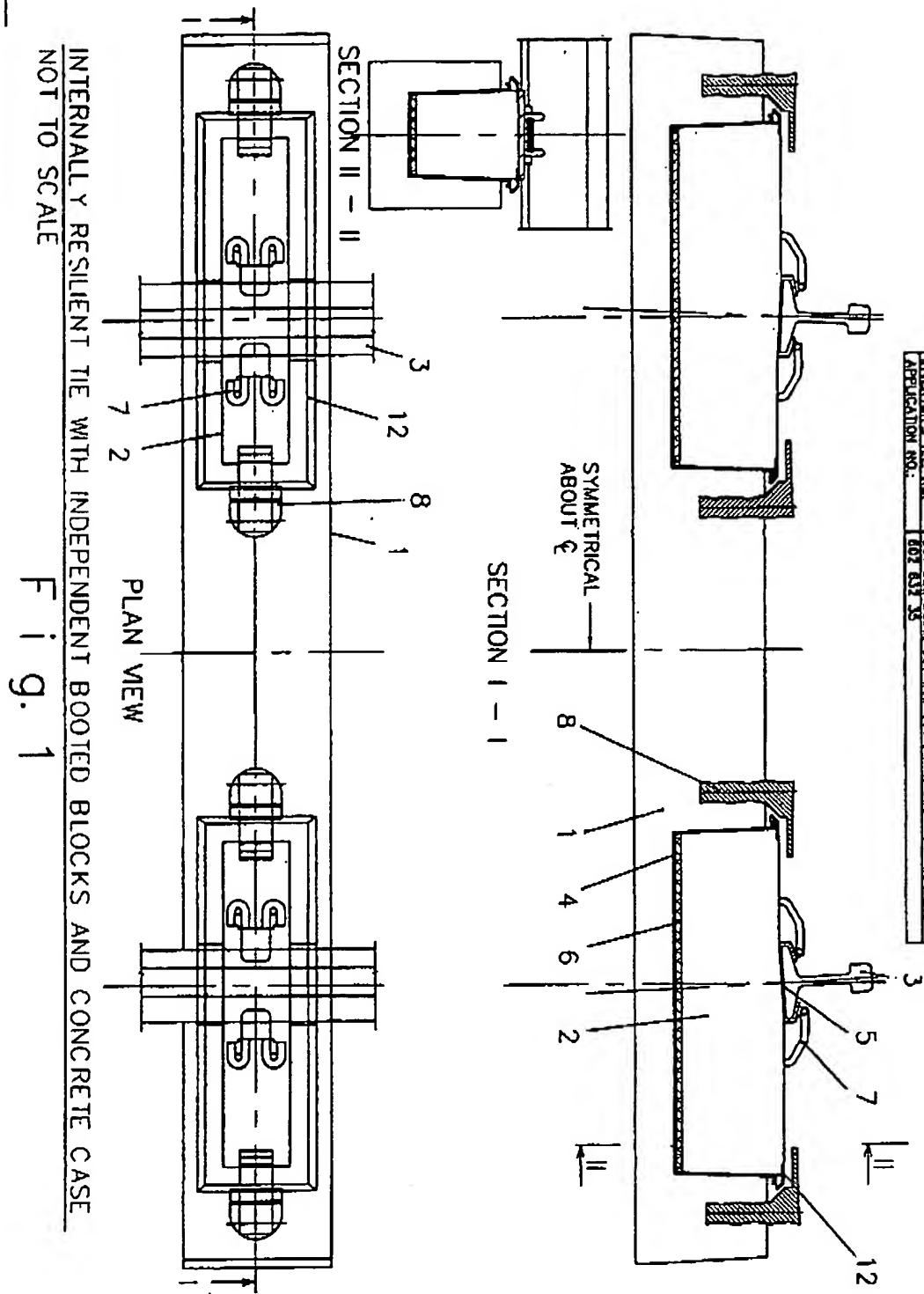


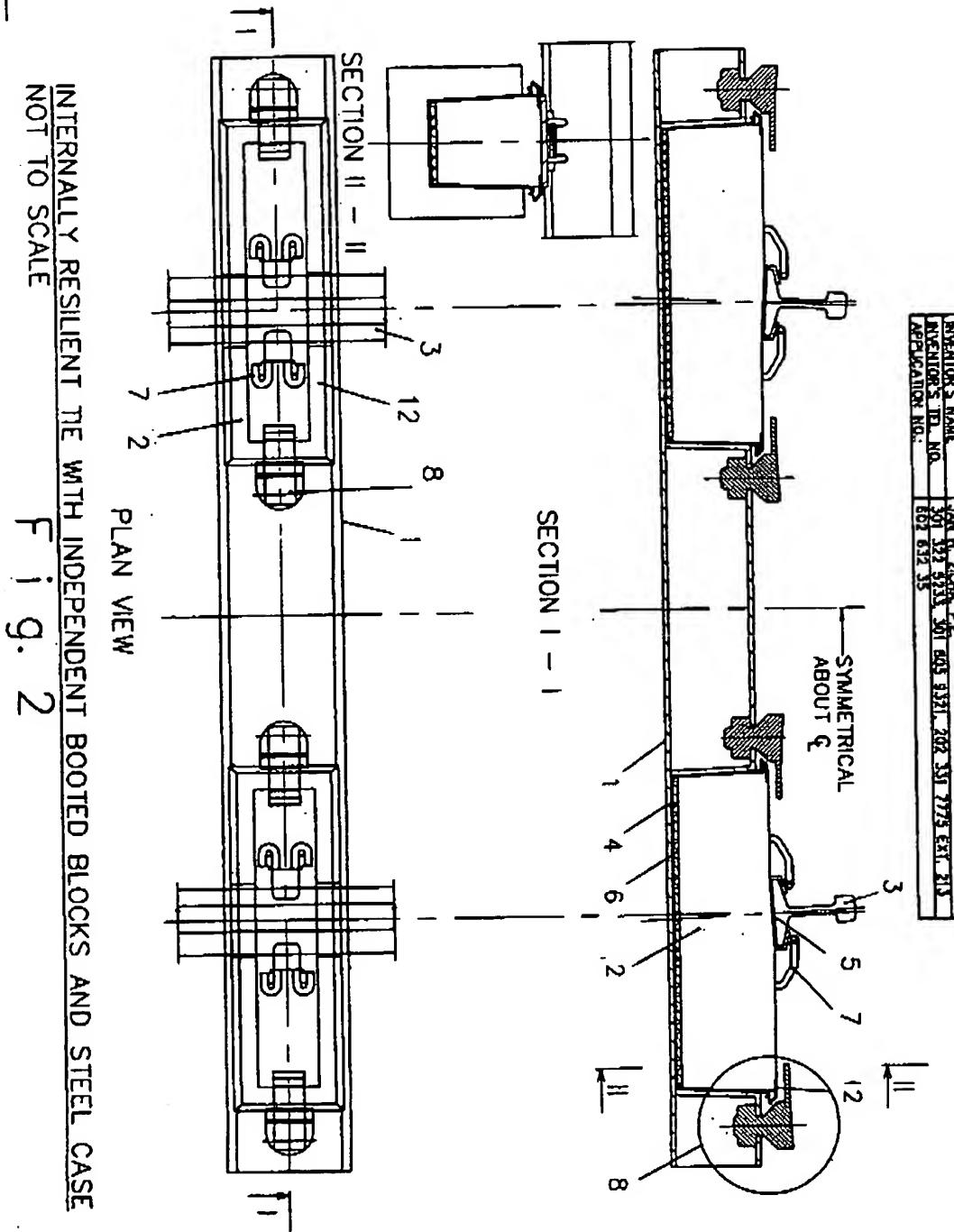
TITLE OF THE INVENTION: INTERNALLY RESILIENT TIE FOR RAILWAY TRACK
 INVENTOR'S NAME: JAN H. ZWOLIN, P.E.
 INVENTOR'S TEL. NO.: 301 377 5233, 301 605 9321, 202 331 7775, EXT. 213
 APPLICATION NO.: 602 637 35



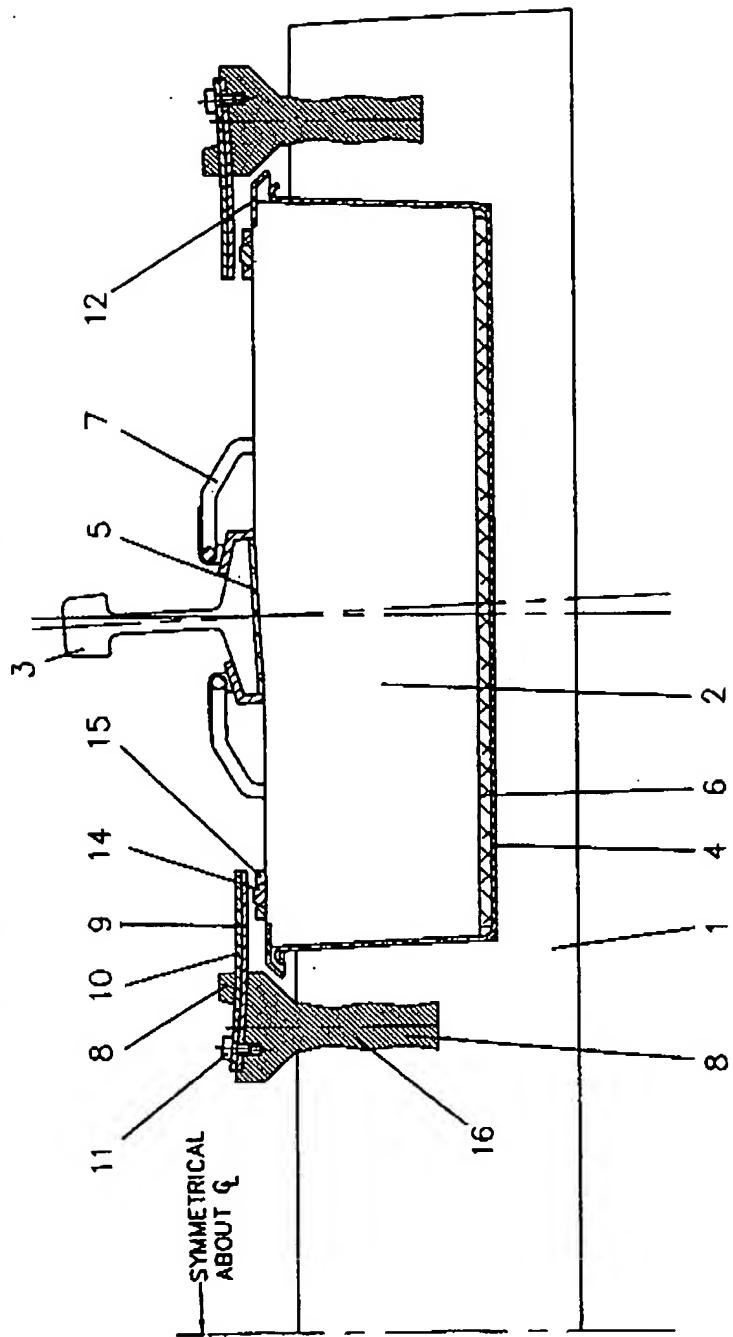
INTERNALLY RESILIENT TIE WITH INDEPENDENT BOOTED BLOCKS AND CONCRETE CASE
 NOT TO SCALE

Fig. 1

TITLE OF THE INVENTION: INTERNALLY RESILIENT TIE FOR RAILWAY TRACK.
 INVENTOR'S NAME: VAN H. VAN DER P. S. M. S. 301 197 3933 301 3921 202 391 7775 EXP. 215
 INVENTOR'S I.D. NO.: 602 632 35
 APPLICATION NO.:

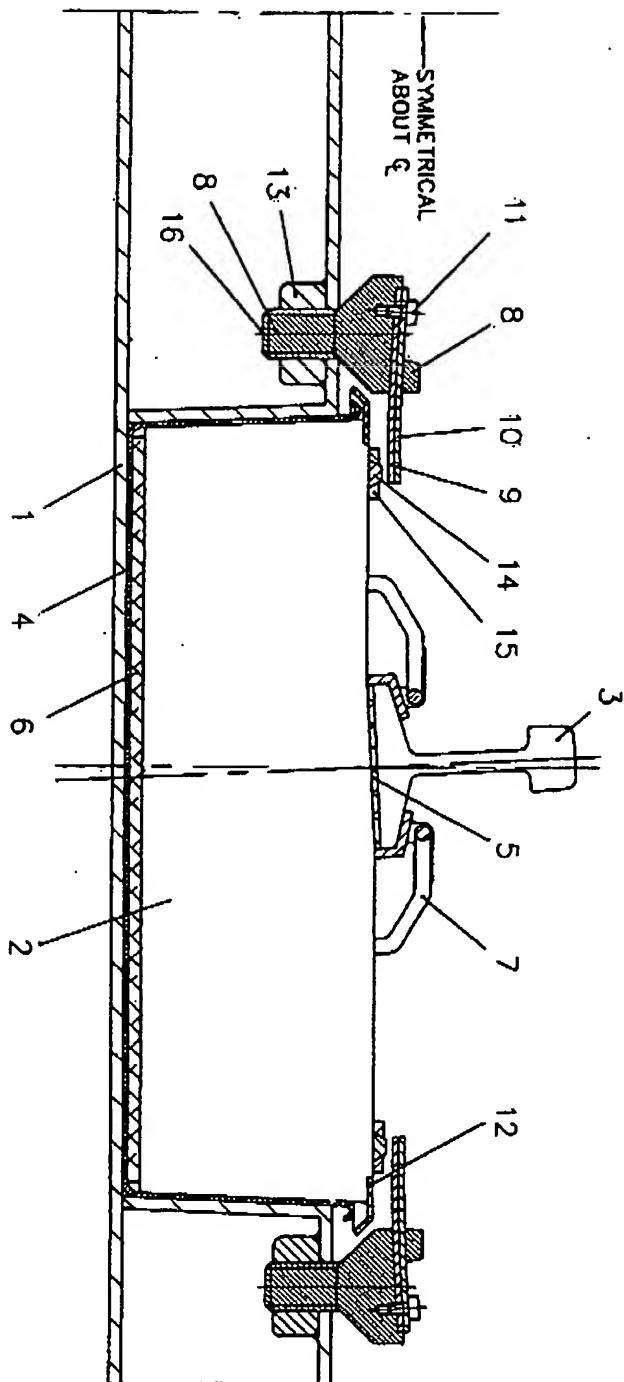


TITLE OF THE INVENTION: INTERNALLY RESILIENT TIE FOR SATELLITE TRACKS
 INVENTOR'S NAME: JAH H. KIM, P.E.
 INVENTOR'S TEL. NO.: 301-322-5333, 301-805-6321, 202-351-7773 EXT. 213
 APPLICATION NO.: 09/332, 75



DETAIL OF SECTION I - I SHOWING BLOCK RETAINER OF FIG. 1
 INTERNALLY RESILIENT TIE WITH INDEPENDENT BOOTED BLOCKS AND CONCRETE CASE
 NOT TO SCALE
 FIG. 3

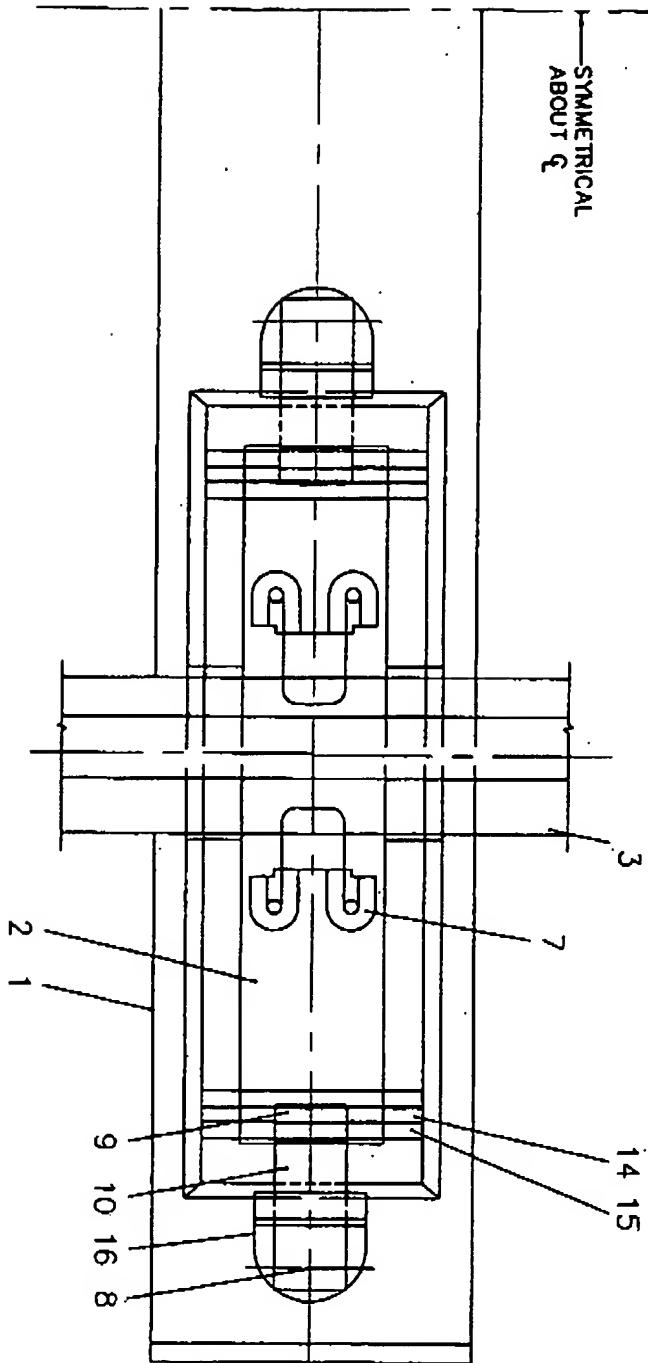
TITLE OF THE INVENTION	INTERNAL RESILIENT TIE FOR RAILWAY TRACK
INVENTOR'S NAME	MAN M. ZUCHA, P.E.
INVENTOR'S TEL. NO.	801-777-5210 301-655-2021
REGISTRATION NO.	6027512 15



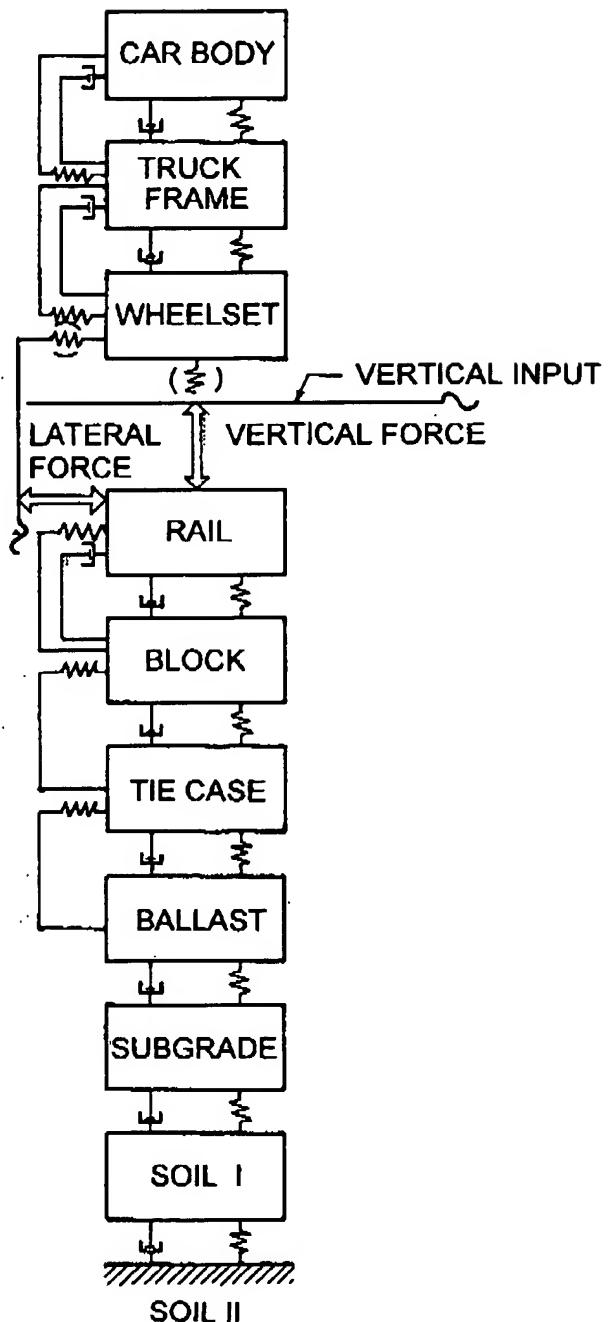
DETAIL OF SECTION I - I SHOWING BLOCK RETAINER OF FIG. 2
INTERNAL RESILIENT TIE WITH INDEPENDENT BOOTED BLOCKS AND STEEL CASE
 NOT TO SCALE

Fig. 4

TITLE OF THE INVENTION: INTERNALLY RESILIENT TIE FOR RAILWAY TRACK
 INVENTOR'S NAME: ANN M. ZOGIA, P.E.
 INVENTOR'S TEL. NO.: 301-372-5211, 301-695-8321, 202-531-7775 EXT. 218
 APPLICATION NO.: 601 637 191



PLAN VIEW RELEVANT TO BLOCK RETAINERS OF FIG. 1 AND FIG. 2
INTERNALLY RESILIENT TIE WITH INDEPENDENT
BOOTED BLOCKS AND CONCRETE OR STEEL CASE
 NOT TO SCALE
 Fig. 5



DYNAMIC TRACK / TRAIN INTERACTION SYSTEM - MODEL FOR ONE AXLE

F i g. 6